#4

Feb

RALEIGH AMATEUR RADIO SOCIETY

RARS

WORLDWIDE FRIENDSHIP

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"Raleigh Amateur Radio Society News"

NEXT MEETING

The next monthly meeting of the RARS will be held Wednesday evening, February 4th at 7:30 PM. The program will include an auction conducted by Bob Johnson, W4CQJ. Bring your surplus radio equipment and get top dollar for it. Also, bring your dollars along so you will be sure to pick up a bargain. The meeting will be at the Civil Defense Headquarters in the basement of the North Carolina State Government Administrative Building on 116 West Jones street. Ample parking is available behind the building. Please enter through the back door. Everybody is welcome.

QRM FROM THE EDITOR

Another fine club meeting was held in January to start the new year right. Around forty members and visitors were there again. The club has many projects going and more in the planning stage. Novice classes, upgrade training, FM communications, monthly newsletters, field day preparation and the fantastic name tag project led by John Fried, W4WWD, are in the works now. With these projects going now and more coming up, there is plenty of work for every member of the club to be deeply involved. We can use more new members in the club too, so everyone can work at that. And, I can use more inputs from the members for this newsletter.

The mini technical review will be my second and last. At the January club meeting, I cornered Bert Bailey, W4FMN, and before he knew what had hit him, he had volunteered to do the reviews. I look forward to them. He will also present some technical brain twisters from time-to-time.

John Huffman, W4IRE, from Winston-Salem, will be utilizing the RARS newsletter for the CW net. Also he has submitted articles that will be published as soon as possible. We hope that this is just the first of the nets and clubs that will use this publication for their publication.

W4YDY

AUCTION NIGHT - NEXT MEETING

At the February meeting as part of the program, the ole auctioneer, Bob Johnson, W4CQJ, will conduct a junk equipment auction. Anything pertaining to ham radio is fair game. Those of us attending last year's auction will recall what a super salesman Bob is and the good time had by all who participated. The sky is the limit, but first there are a few ground rules to be observed.

1. All equipment, parts, etc., for sale must be tagged with name or call and a minimum price if any is wanted by the owner. If a minimum is specified, the auction will begin at that price.

2. Due to the great number of items at the last auction and the limited amount of time, Bob has requested that if you bring more than one item, mark your tag with an order of priority of sale so that at least one item per person will be auctioned.

3. Remember in setting your minimum (if you do) that the club gets 10% of the sale price up to two dollars. (A very nominal sum.)

Go through your basements, junk boxes, closets, etc., and lets have a good turnout for a fun evening.

PROGRESS REPORT ON TWO-METER FM

Since this past summer, the rush to 146.94 MHz in the Raleigh area has been phenomenal to say the least. The heart of this operation has been the ever faithful Motorola Sensicon units with a sprinkling of other Motorola types, Aerotron units, and many others. At latest count, the following stations were on the air.

Raleigh: WA4PEN, K4CXW, K4ITL, WA4OTA, WA4ZNA, W2GHK/4, W4KXW, WA4JFU, WB4MPD, WB4MKY, W4JQO, W2BXE/4, W4PIB, WA4EHL, K4UOO, WA4NRR, K4RUQ, and WA4MKK.

Durham: K4CHS.

Smithfield: K4JYS, K4SWR, W4DHN, W4JDQ, WB4AXH, and W4RUH.

Raleigh got its first repeater in service in December, set up on highway 64 East by K4ITL and WA4EHL. K4ITL reports that at present it is primarily an experimental setup. The receiver is basically a Motorola Sensicon unit with modifications in the audio circuitry and the transmitter is the same with a home brew 5894 final putting out about 100 watts. The receive antenna is a 3db coaxial at 60 feet and the transmit antenna at present is a ground plane at 20 feet. The repeater is set up for 146.34 MHz in and 146.94 MHz out. It is reported that the Smithfield boys are working on a similar project.

For a simple FM repeater antenna note the January 1970 issue of QST at page 24.

It is rumored that W2BXE/4 got so excited about FM that he took down half of the family TV antenna and substituted a two-meter ground plane. Several very unexcited members of his family were reported on the roof holding guy wires for this ardent FM'er.

WA4OTA

LICENSE UPGRADING CLASSES

License upgrading classes for the month of February will be held on the 11th, 18th, and 25th. Meetings are held at 7:30 PM at the Civil Defense meeting room. February classes will be on transmission lines, antenna fundamentals, and propagation. Bob, W4CQJ is the instructor.

RARS MEMBERS PASS FCC EXAMS

Congratulations to Steve Kastelberg, WB4NAW, and Ron McCann, WB4OZL, for dropping the "N" from their calls. They now have the General Class license. Also congratulations go to John and Bryan Wittman for passing their Novice exams.

RARS MEMBER ELECTED NET DIRECTOR

Congratulations to Jim Wilson, WB4HAL, for being elected a Director of the new Carolinas Fone Net on 3865 kHz. This is another example of the active amateurs in the Raleigh Amateur Radio Society.

WANTED

A good used oscilloscope and RF signal generator; will pay cash. K4VLI, Phone 828-4710.

FOR SALE

Used good condition Black and Decker 1/4" electric drill; 24 Vdc 1/2 HP electric motor; 250 feet #6 bare copper wire. Make offer to K4VLI, Phone 828-4710.

FOR SALE

Hallicrafter SX-32 rcvr, 590 khz-40 MHz, $35; BC-312 rcvr, 1.5-18 Mhz, 115V pwr supply, $35; TCS xmtr, rcvr, 115V pwr supply, 1.5-12 MHz, VFO or 4 crystal pos, 120W CW, 60W fone, $75; Navy RBC rcvr, 4-27 MHz (5 bands), pwr supply, $100; Pan Adapter for RBC, $50 (Note: will only be sold with RBC); Hallicrafter O5BFR FSK NBFM exciter (for Teletype), never powered up, $25; Hallicrafter HT44 SSB with PS-150 pwr supply, $175; Esterline Angus Chart Reorder with General Radio 715 amp, 4 rolls chart paper, $150. Phone Hank Nissen, W4VUP, 467-8792.

SEE JANUARY 1970 QST AT PAGE 68 FOR DISCUSSION AND PICTURES OF HAM RADIO WEEK IN NORTH CAROLINA

LETTER TO THE EDITOR

Dear Dave,

Thanks for putting my name on the list of those receiving the RARS Bulletin, and my congratulations on a fine job. It is certainly needed in the state, and it does keep the larger number of active amateurs informed about what's going on.

As you know, I accepted the appointment of Section Emergency Coordinator for North Carolina, and it has been one big job, trying to find out who are the County Emergency Coordinators, who are members of AREC, and who are prospective members for these openings. We have approximately 25% of the state that list EC's in their counties, but in upgrading, I find over 50% of these are inactive and do not send in reports.

In years gone by, North Carolina Section has had some fine cooperation from most of the amateurs, whereever we had a simulated or a real emergency. This was not necessarily due to any large and intricate AREC organization, but more to the fact that all of the fellows seemed to know where to go to assist and get in on the action. Being "available" was the important thing in these emergencies. There have been numerous plans put forth on the best way to handle emergency communications. The "Key City" plan was certainly one of the better ones, but it was always the individual amateur being on the air when needed, acting as liaison from one net to another, and just generally keeping the ball rolling, that made communications possible at such times.

With the merging of AREC with the RACES program, I would like very much to see closer cooperation between these two groups in carrying out a more coordinated setup for emergency communications. If a county has a RACES organization, and does not have an Emergency Coordinator, why can't the RACES Radio Officer become the E.C., or find a man who would agree to take it for his county?

It is hard for me to pressure anyone into taking on a responsibility for EC, either on the air or by letter. All I ask is, that any individual who feels that he can use his talents, his equipment, his time, and his patience, and would be willing to use it in the form of Public Service, he will be welcomed with open arms by your SEC!!

One of the best sources of talent in this respect are the numerous affiliated Amateur Radio Clubs that we have here in North Carolina. May I urge that club presidents in counties that do not have an EC, try to get someone to volunteer. In counties that are not that fortunate to have organized clubs, perhaps someone could recommend a known active amateur to your SEC... or better still, come forward yourself.

In this respect, I am at a disadvantage down here in the "boondocks" in that I can't work into local VHF nets, but there has never been a time that Robeson County wasn't available on the Voice & CW nets. I am trying now to get as complete a list as possible of the active VHF nets around the state, so that as new people come into AREC, they can be guided into these nets where they can learn the procedures in handling traffic and aiding the local EC.

By next month, I hope I can give a more complete report on the organization as it now stands. In the meanwhile, I am open for any suggestions on how is the best way to set up a strong and active AREC program for North Carolina. By the same token I am open for criticism--but let's make it of a constructive nature, if possible. I can't do anything about Incentive Licensing, sorry.

Thanks for letting me in your bulletin, and a fine one it is.

-73-
Hank Haney W4LVN
SEC North Carolina
Box 935
Lumberton, N.C. 28358

THAT PROVOKER

A network in the geometry of the edges of a cube is made from 12 one-ohm resistors. What is the resistance of the cube as measured between diagnoally oposite corners of the cube? Answer: next issue.

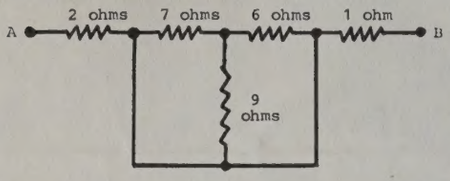
W4FMN

BRAIN TWISTER

Given: Resistor network shown below.

Find: Equivalent resistance of circuit measured from A to B.

Answer: Next issue.



W4FMN

NOVICE CLASSES STARTED

The second Novice class started in January. These RARS classes are being conducted by John Bargaiam, K4VLI. If there are enough takers, Bob Corns, K4MC, will start another.

FCC EXAMS SCHEDULED

Amateur exams are scheduled in Winston-Salem on February 5th and 6th. The next exams in Winston-Salem will be in May, so lets get ready.

HOMEBREW?

On January third, ten Raleigh ham families dined at the Steakmaster's Resturant in Quail Ridge Shopping Center. President Ed Alderman reported that the group then migrated over to Bob Johnson's (W4CQJ) home for some "homebrew." A good time was had by all and only a few asprin sandwiches were reported in evidence the next day.

FIELD DAY QUESTIONNAIRE FOR RARS MEMBERS

RARS members are requested to fill out the enclosed questionnaire and bring it to the February club meeting or mail it to P.O. Box 12541. Field day is getting near, so Tom Martin, K4CQJ, is looking for lots of help. We want to win this year.

50TH STATE FINALLY HOOKED

John Fried, W4WWD, worked Vermont on January 11th to complete his WAS. He was anxiously waiting for that card a few days later. Lets hope it gets here by the next club meeting or he will be a complete wreck! Congratulations John.

MINI TECHNICAL REVIEW

The January issue of QST has articles on making your own etched-circuit boards at home, antennas for 80 meters DX, and part 3 of the transistor series. A transistor module for SSB transceivers is described. It includes the complete IF and audio systems.

HAM RADIO for January has a very good article on how to use RF power transistors. This should be worth the price of the magazine. It includes a 9-watt amplifier for 145 MHz that requires 20 mW drive. Just the thing for 2-meter FM. There are other articles on antenna couplers, SSB speech processor digital-counter readout and more. FM magazine was taken over by HAM RADIO, so more FM articles will be published.

January "73" covers some fundamentals of semiconductors in the Extra Class license course. Slow-Scan Color TV and Facsimile may be of interest to those who want to try the more exotic modes of amateur radio. Future issues promise more articles on FM.

CQ for January has the second part of the FET theory. The 25th anniversary issue has articles on neutralization, effective speech transmission, and receiver signal-handling capabilities. There's an interesting quad-yagi combination antenna for 10-15-20. Also see page 76 for a story and picture on Clarence Blalock, K4LO, Secretary-Treasurer of the Tarheel Emergency Net.

W4YDY

CAROLINAS FONE NET

Formerly the N.C. Fone Net, this voice net meets each evening on 3865 kHz at 2030 EST.

A general business meeting was held 2 January 1970. The following offices were filled:

Net Manager--WA4AKX, John, Greensboro
Net Secretary-Treasurer--WB4CZJ, Stan, Plymouth
Net Directors--WB4COO, Brown, Concord
WB4HAL, Jim, Raleigh
WA4WKW, Sam, Charlotte

Due to active participation from several states, the name of the net was changed to Carolinas Fone Net.

John, WA4AKX, is currently working on a set of by-laws and rules for the net. The number of rules will be kept as small as possible to prevent undue entanglements in the red tape area.

Net control stations for January were as follows: week of 1/5, WA4FQO, Oliver; week of 1/12, WB4HAL, Jim; week of 1/19, WA4AKX, John; and week of 1/26, WA4VJW, Bryce.

We are, as always, on the lookout for new members and net control stations. Come down and join us. You might find someone you know.

Stan, WB4CZJ
Net Secretary-Treasurer

NET CHRISTMAS PARTY

The Tomahawk Motel in Ahoskie rang with the revelry of Christmas and ham lingo on December 6th when hams of the CCLN. plus linear XYL's and prospective XYL's met for the annual Christmas party.

The Ahoskie gang and other nearby members went all out in setting up a temporary ham shack and a hospitality room in the Motel. Mrs. Bland, mother of Rodney, WA4ZGQ, plus other members of the family and friends, really did themselves proud in furnishing the hospitality room with a variety of eats, drinks, and a football game on color TV.

Joe Morris, WA4OFA, and Brad, W4JPY M'ceed the dinner and called on all members for a short rag chew and on W4YMI for a long rag chew. All members received door prizes provided by Ahoskie merchants and Filto pipes provided by W4YBA. W4TTA was suspected of collusion since he and his family collected most of the prizes, but since no proof was available, the case was ruled non-sequitar or some such Latin lingo.

It was a real good'ern.

WA4LKL, Net Secretary
Coastal Carolina Emergency Net

ANNOUNCING THE
CAROLINAS TRAFFIC NET - "CN"

The NCN and SCN CW traffic nets have joined forces to create the "Carolinas Traffic Net" or "CN" as it will be called. Thus a single section net has been made from what was formerly two section nets. We hope that someday an upsurge in participation will warrent reestablishing the two section nets, but for now we will use "CN" to its fullest.

The effective starting date for "CN" is January 15, 1970. Net frequency will be 3573 kHz, the present NCN frequency. Two sessions will meet daily, at 6:45 pm EST (2345 GMT) and at 10:00 pm (0300 GMT). During the summer, net time will be 6:45 pm DST and 10:00 pm DST. Each net will run approximately 15 minutes, or longer, depending on the traffic load. Daily liaison will be maintained to region and area nets of NTS (National Traffic System), giving national coverage for outgoing and incoming message traffic.

If you are new to traffic handling, you are welcome and your message traffic is always welcome. We use the ARRL message format (see Handbook or Operating Manual), so write 'em down and bring them to "CN." (Operating Aid No. 9a, available for the asking from ARRL, contains the basic information needed for net participants. You will also find the NTS Directory, CD-50, to be an occasional aid when it is desirable to get a high-priority message quickly to the destination section-net.)

John Huffman, W4IRE
RM of N.C.

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TO:

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RALEIGH, N. C.

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